CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

Claim 1. (Original): A solenoid fluid control valve, comprising:

a fluid control body adapted for being received in a fluid housing, said fluid control body including a central cavity, and having a pressure supply passage at a first end and a radially extending pressure control passage:

a feed supply tube positioned in said central cavity, said feed supply tube including an outer diameter in communication with said pressure control passage, and including an inner bore operably connected to said pressure supply passage, said feed supply tube being supported in said central cavity of said fluid control body by at least one flying buttress structure interposed therebetween, said feed supply tube including a valve receiving chamber area;

a valve seat portion being made of a plastic material and press fit onto said control body, said valve seat portion including a valve seat and a passage in communication between said valve seat and said pressure control passage;

a valve contained in said valve receiving chamber area for closing off communication between said pressure supply passage and said pressure control passage; and

a solenoid for opening said valve in response to a signal.

Claim 2. (Original): The invention according to claim 1, wherein said solenoid

includes a central axis and has a coil wound around a bobbin, spaced from and

positioned around said central axis, said coil having radially stepped radial inner

diameters.

Claim 3. (Currently Amended): The invention according to claim 2, further

comprising a casing member for attaching said solenoid to said control body, a portion

of said casing member extending into the stepped portion of said coil for forming a flux

tube therein, said bobbin including a "C" shaped C-shaped integrally molded retention

ring.

Claim 4. (Original): The invention according to claim 3, further comprising an

armature axially movable within said bobbin.

Claim 5. (Original): The invention according to claim 4, wherein said armature

includes at least one area defining a pressure relief vent formed thereon.

Claim 6. (Original): The invention according to claim 4, further comprising a pole

piece adjacent said armature interposed between said bobbin and said fluid control

body.

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Claim 7. (Original): The invention according to claim 6, further comprising a control rod extending along said central axis and through said pole piece for opening of said valve.

Claim 8. (Original): The invention according to claim 6, wherein at least one tolerance of said valve seat portion is maintained such that the distance between said valve seat and the upper surfaces of at least one wing member adjacent said pole piece is maintained within a tolerance of ± 0.025 mm.

Claim 9. (Currently Amended): The invention according to claim 1, wherein said solenoid fluid control valve is a ball valve.

Claim 10. (Original): A solenoid fluid control valve, comprising:

a fluid control body adapted for being received in a fluid housing, said fluid control body including a central cavity, and having a pressure supply passage at a first end and a radially extending pressure control passage;

a feed supply tube positioned in said central cavity, said feed supply tube including an outer diameter in communication with said pressure control passage, and including an inner bore operably connected to said pressure supply passage, said feed supply tube being supported in said central cavity of said control body by at least one flying buttress structure interposed therebetween, said feed supply tube including a valve receiving chamber area;

a valve seat portion being made of a plastic material and press fit onto said control body, said valve seat portion including a valve seat and a passage in communication between said valve seat and said pressure control passage;

a valve contained in said valve receiving chamber for closing off communication between said pressure supply passage and said pressure control passage;

a solenoid for opening said valve in response to a signal, said solenoid including a central axis and having a coil wound around a bobbin, spaced from and positioned around said central axis, said coil having radially stepped radial inner diameters;

a casing member for attaching said solenoid to said control body; a portion of said casing member extending into the stepped portion of said coil for forming a flux tube therein, said bobbin including a "C" shaped C-shaped integrally molded retention ring; and

an armature axially movable within said bobbin.

Claim 11. (Original): The invention according to claim 10, wherein said armature includes at least one area defining a pressure relief vent formed thereon.

Claim 12. (Original): The invention according to claim 10, further comprising a pole piece adjacent said armature and interposed between said bobbin and said fluid control body.

Claim 13. (Original): The invention according to claim 12, further comprising a control rod extending along said central axis and through said pole piece for opening of said valve.

Claim 14. (Original): The invention according to claim 10, wherein at least one tolerance of said valve seat portion is maintained such that the distance between said valve seat and the upper surfaces of at least one wing member adjacent said pole piece is maintained within a tolerance of ± 0.025 mm.

Claim 15. (Original): The invention according to claim 10, wherein said solenoid fluid control valve is a ball valve.

Claim 16. (Original): A solenoid fluid control valve, comprising:

a fluid control body adapted for being received in a fluid housing, said fluid control body including a central cavity, and having a pressure supply passage at a first end and a radially extending pressure control passage;

a feed supply tube positioned in said central cavity, said feed supply tube including an outer diameter in communication with said pressure control passage, and including an inner bore operably connected to said pressure supply passage, said feed supply tube including a valve receiving area;

a valve seat portion being made of a plastic material and press fit onto said control body, said valve seat portion including a valve seat and a passage in communication between said valve seat and said pressure control passage;

a valve contained in said valve receiving chamber for closing off communication between said pressure supply passage and said pressure control passage;

a solenoid for opening said valve in response to a signal, said solenoid including a central axis and having a coil wound around a bobbin, spaced from and positioned around said central axis, said coil having radially stepped radial inner diameters;

a casing member for attaching said solenoid to said control body;

a pole piece adjacent said armature and interposed between said bobbin and said fluid control body;

a flux tube secured by said casing member, said flux tube including a support portion extending therefrom; and

an armature axially movable within said bobbin.

Claim 17. (Original): The invention according to claim 16, wherein said armature includes at least one area defining a pressure relief vent formed thereon.

Claim 18. (Original): The invention according to claim 16, wherein said armature includes an axially extending rod portion extending from said armature into said support.

Claim 19. (Original): The invention according to claim 18, further comprising a bearing secured in said support wherein said rod portion slidingly extends through said bearing portion, said bearing stabilizing the movement of said armature.

Claim 20. (Original): The invention according to claim 16, wherein at least one tolerance of said valve seat portion is maintained such that the distance between said valve seat and the upper surfaces of at least one wing member adjacent said pole piece is maintained within a tolerance of ±0.025 mm.

Claim 21. (Original): The invention according to claim 16, wherein said solenoid fluid control valve is a ball valve.

The Applicant has amended Fig. 8 to delete elements 30 and the leader lines associated therewith. Additionally, the Applicant has amended Fig. 8 to include elements 18 and 22 and the leader lines associated therewith.

The Applicant has amended Fig. 13 to change element 20 to element 70.

The Applicant has amended Fig. 14 to include elements 134 and 166a and the leader lines associated therewith. Additionally, the Applicant has amended Fig. 14 to modify the leader line for element 180.

The Applicant avers that no new matter has been introduced.

As such, the replacement sheets of Figs. 1-14, and the corresponding text in the specification, clearly describe and depict all of the elements recited in originally filed claims 1-21.